

INTERNATIONAL SEARCH REPORT

Rec'd PCT/PTO 11 MAR 2005

International Application No.

PCT/FI 03/00645

10/521459

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B01D 29/05, B01D 33/23

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0723799 A1 (KOPPE, FRANZ), 31 July 1996 (31.07.96) --	1-18
X	US 5730869 A (FRANZ KOPPE), 24 March 1998 (24.03.98) --	1-18
A	US 4863656 A (ROLF HINDSTRÖM), 5 Sept 1989 (05.09.89) --	1
A	US 4981589 A (ROLF HINDSTRÖM ET AL), 1 January 1991 (01.01.91) --	1

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search

Date of mailing of the international search report

24 November 2003

27-11-2003

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20020092807 A1 (KERRY JOHNSON ET AL), 18 July 2002 (18.07.02) -- -----	1

INTERNATIONAL SEARCH REPORT
Information on patent family members

06/09/03

International application No.

PCT/FI 03/00645

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0723799 A1	31/07/96	BR 9600215 A		06/01/98
		DE 4330163 A,C		16/03/95
		JP 3269600 B		25/03/02
		JP 8252415 A		01/10/96
		US 5730869 A		24/03/98
US 5730869 A	24/03/98	BR 9600215 A		06/01/98
		DE 4330163 A,C		16/03/95
		EP 0723799 A		31/07/96
		JP 3269600 B		25/03/02
		JP 8252415 A		01/10/96
US 4863656 A	05/09/89	AU 587507 B		17/08/89
		AU 6564386 A		26/05/88
		DE 3641057 A,C		16/06/88
		FI 73142 B,C		29/05/87
		FI 853963 A		12/04/87
		GB 2197596 A,B		25/05/88
		GB 8628158 D		00/00/00
		US 4856204 A		15/08/89
US 4981589 A	01/01/91	AU 1293988 A		26/09/88
		BR 8805852 A		31/10/89
		CA 1316121 A,C		13/04/93
		DE 3882302 A,T		19/08/93
		EP 0304443 A,B		01/03/89
		ES 2006841 A		16/05/89
		FI 77162 B,C		31/10/88
		FI 870979 A		06/09/88
		JP 1502494 T		31/08/89
		JP 2612200 B		21/05/97
		WO 8806480 A		07/09/88
US 20020092807 A1	18/07/02	NONE		